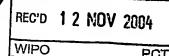
# P

## PATENT COOPERATION TREAMY

## **PCT**



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	·			
	FOR FURTH	ER ACTION	See Notification	on of Transmittal of International xamination Report (Form PCT/IPEA/416)
International application No. PCT/EP 03/08645	International filin	g date (day/mon		Priority date (day/month/year)
	04.08.2003			08.08.2002
International Patent Classification (IF A23L1/212	C) or both national classifi	cation and IPC		1
A 11				
Applicant UNILEVER N.V. et al				
Ctal				
This international preliminal				
Authority and is transmitted	y examination report hat to the applicant according	is been prepare	ed by this Inte	rnational Preliminary Examining
		ing to Article St	o.	
2. This REPORT consists of a	And I co			
2. This REPORT consists of a	total of 6 sheets, includ	ling this cover	sheet.	
This report is also acc	ompanied by ANNEXES	S. i.e. sheets of	the description	n, claims and/or drawings which have
peen amended and an (see Rule 70.16 and S	e the basis for this repo ection 607 of the Admin	rt and/or sheets	containing re	n, claims and/or drawings which have ctifications made before this Authority
These annexes consist of a		iisii alive instru	ctions under th	ne PCT).
a menee consist of a	iolaror i sneets.			
<ol><li>This report contains indication</li></ol>	ns relating to the follow	ng items:		
I 🖾 Basis of the opini	on			
II Priority				
III 🛛 Non-establishmer	nt of opinion with regard	to novelty, inve	entive step an	d industrial applicability
- Lack of drifty of the	vertion			
V 🖾 Reasoned statem	ent under Rule 66.2(a)(i anations supporting suc	i) with regard t	o novelty, inve	entive step or industrial applicability;
VI ☐ Certain document		n statement		при
	the international applica	rtion		
· VIII 🔲 Certain observation	ns on the international a	application		
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/08645

l. Basis	of the	rep	ort
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	D	escription, Pages	
	1	-21	as originally filed
	С	laims, Numbers	
	10	0 (part), 11-21	as originally filed
	1-	9, 10 (part)	received on 27.09.2004 with letter of 27.09.2004
	D	rawings, Sheets	•
	1-	4	as originally filed
<ol><li>With regard to the language, all the elements marked above were available or furnished to this Authoral language in which the international application was filed, unless otherwise indicated under this item.</li></ol>			
	Th	nese elements were a	available or furnished to this Authority in the following language: , which is:
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pu	blication of the international application (under Rule 48.3(b)).
		the language of a t Rule 55.2 and/or 55	ranslation furnished for the purposes of international walk is
3.	Wi inte	th regard to any <b>nuc</b> l ernational preliminary	leotide and/or amino acid sequence disclosed in the international application, the vertical examination was carried out on the basis of the sequence listing:
			ernational application in written form.
			he international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
			ently to this Authority in computer readable form.
		The statement that	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.
			the information recorded in computer readable forms to the information
١.	The	amendments have i	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
l		the drawings,	sheets:

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/08645

5. A This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

see separate sheet

6. Additional observations, if necessary:

## III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

	or opinion with regard to noverty, inventive step and industrial applicability				
1	. The	he questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- bvious), or to be industrially applicable have not been examined in respect of:			
		the entire international applic			,
	×	claims Nos. 1-5, 12-21			
		because:			
		the said international applica not require an international p	tion, or relimin	r the said cla ary examina	ims Nos. relate to the following subject matter which does tion (specify):
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):			
		the claims, or said claims No could be formed.	s. are	so inadequat	ely supported by the description that no meaningful opinion
	×	no international search repor	t has b	een establisl	ned for the said claims Nos. 1-5, 12, 14-21
2.	A m	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative			
		the written form has not been furnished or does not comply with the Standard.			
					ned or does not comply with the Standard.
٧.	Reas citat	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.		ement			
	Nove	elty (N)	Yes: No:	Claims Claims	6-11
	Inver	itive step (IS)	Yes: No:	Claims Claims	6-11

6-11

Yes: Claims

Claims

No:

2. Citations and explanations

Industrial applicability (IA)

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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see separate sheet



### Re Item I **Basis of the Report**

The amendment filed with the letter dated 27/09/2004 introduces subject-matter which extends beyond the content of the application as filed, contrary to Article 34(2)(b) PCT. The amendment concerned is the following:

claim 6 'the term processed tomato product is defined as a product that comprises tomatoes which are subjected to a concentration step. In the application as filed, this term is defined (cf. p.1, l.12-13 and p.6, l.19-22) as involving at least hot- or cold-breaking and a concentration step.

This report has been established as if the amendment had not been made, i.e. on the original set of claims.

### Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

No examination is carried out on independent claims 1, 12 and 18-20 (and dependent claims 2-5, 13-17, 21) because these claims were not fully searched for the following reasons:

Independent claims 1, 12, 18-20 (and depending claims 2-5, 14-17, 21) relate to tomato products and the corresponding process defined by reference to a desirable characteristic or property, namely Bostwick value, polygalacturonase and exogalactanase level, or 180bp fragment. The claims cover all products and methods having this characteristic or property, whereas the application provides support within the meaning of Article 6 and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such products and methods.

Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product and process by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

In addition, the claims relate to products and methods defined (inter alia) by reference to the following parameter: Bostwick value, 180bp fragment. The use of these parameters in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to compare the parameters the applicant has chosen to employ with what is set out in the prior art.

Consequently, the search was carried out for those parts of the claims which appear to be clear, supported and disclosed, namely (cf. p.3, l.25-27; p.5, l.33 to p.6, l.32; p.7, l.13-16; p.9, I.8-20; ex.1; claims 6-11 and 13) those parts relating to processed ripening-inhibited tomatoes being homozygous for the rin, nor, Nr or alc genes, or heterozygous for combinations of two of these genes.

In view of the above objections, only claims 6-11 have been examined.



International application No. PCT/EP 03/08645

### **EXAMINATION REPORT - SEPARATE SHEET**

### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following documents are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1	Euphytica, 125(2), 2002	D2	CSIRO Fd Res. Q.,38, 1978
D3	J. Hort. Sc., 58, 1983		J. Sci. Food Agric., 31, 1980
	Hortscience, 13(5), 1978		
	J. Amer. Soc. Hort. Sci., 107(3), 1982		J. Amer. Soc. Hort. Sci., 109(4), 1984
	1902	Do	J. Plant Physiol., 139, pp.140-145, 1991

The present application does not meet the requirements of Article 33 PCT because the subject-matter of claims 6-11 is not new in the sense of Article 33(2) PCT.

V.1/ D1 discloses (cf. tables 5-7) tomatoes homozygous for alc, and their analysis (implying some form of processing into paste). D1 further discloses alc/alc tomatoes further comprising og and/or hp genes. The subject-matter of claims 6-11 is therefore not new.

V.2/ D2 discloses (cf. table 2) tomatoes homozygous for nor, and their analysis (implying some form of processing into paste). The subject-matter of claims 6, 7, 11 is therefore not new.

V.3/ The above objection applies mutatis mutandis to claims 6, 7 and 11 over D3 (cf. table I; figures); D4 (cf. tables 1, 2); D5 (cf. table 1); D6 (cf. table 11); D7 (cf. tables 1-4) or D8 (cf. tables 1-4).

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#### **CLAIMS**

1. Tomato paste having an increased consistency such that when measured at an insoluble solids interval of 2.5-3.6% at 12°Brix:

(Bostwick value) <  $10.5 - 2.3822 \times (percentage of insoluble solids)$ .

 Tomato paste according to claim 1, such that when measured at insoluble solids interval of 2.5-3.6% at 12°Brix:

(Bostwick value) < 10.0 - 2.3822 x (percentage of insoluble solids).

3. Tomato paste according to claim 2, such that when measured at an insoluble solids interval of 2.5-3.6% at 12°Brix:

(Bostwick value) < 9.5 - 2.3822 x (percentage of insoluble solids).

- Tomato paste according to claim 1-3, wherein the paste is obtained by a hot break process, and optionally followed by concentration.
- Tomato paste according to claim 1-4, having a red, yellow, pink, or orange color at 8.5°Brix.
- 6. Processed tomato product, comprising at least 10% (pref. 20%, more pref. 50%) tomatoes which are homozygous for rin, homozygous for nor, homozygous for Nr, homozygous for alc, heterozygous for combinations of two of the rin, nor, Nr or alc genes, or combinations thereof, whereby the term "processed tomato product" is defined as a product that compises tomatoes which are subjected to a concentration step.
- Product according to claim 6 comprising tomatoes which are homozygous for at least two genes of rin, nor, Nr, or a/c.
- 8. Product according to claim 6-7 having a red, yellow, pink, or orange color at8.5 Brix.
- Product according to claim 6-8 wherein said tomatoes further comprise at least one color-enhancing gene.
- Product according to claim 9 wherein said color enhancing genes are selected from the group consisting of old gold crimson (ogc), high pigment